



10/518133

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR02/01212

A. CLASSIFICATION OF SUBJECT MATTER		
IPC7 H01Q 1/24, H01Q 1/36, H01Q 11/08		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC7 H01Q 1/24, H01Q 1/36, H01Q 11/08		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and Applications for Inventions since 1975 Korean Utility Models and Applications for Utility Models since 1975		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5764191 A (Sony Corporation.) 09 June 1998 claims: 1-4, 6-8, 11, column 5, line 27- column 7, line 14, fig 4A, 4B	1-8, 10, 11, 13, 14, 15
Y	US 5861859 A (Sony Corporation.) 19 January 1999 column 8, line 56- column 10, line 5, column 14, line 37- column 15, line 45, fig 9, 10, 19-20	1-3, 6-8, 14
Y	KR01-220784 Y (ACE Technology Co.) 05 February 2001 claims: 1-3, fig 1	1-6, 10, 11, 13, 15
Y	EP 593185 A1 (NOKIA MOBILE PHONE Ltd.) 01 October 1993 column 3, lines 23- 37, fig 2	1-6, 10, 11, 13, 15
Y	KR00-17671 A (KOREA ELECTRONICS TECHNOLOGY INSTITUTE) 06 April 2000 claims: 1-7, fig 2a-5b	1-8, 10, 11, 13, 14, 15
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 14 JANUARY 2003 (14.01.2003)		Date of mailing of the international search report 15 JANUARY 2003 (15.01.2003)
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer BAK, Jeong Sik Telephone No. 82-42-481-5713 

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5764191 A	09 Jun 1998	None	

US 5861859 A	19 Jan 1999	EP 716469 A1 CN 1129997 A1 WO 96/00990 A1 FI 960905 A	12 Jun 1996 28 Aug 1996 11 Jan 1996 27 Feb 1996

KR01-220784 Y	05 Feb 2000	None	

EP 593185 A1	01 Oct 1993	GB 2271670 A1 JP 6204726 A2 IL 107272 A1 DE 69329323 C0	20 Apr 1994 22 Jul 1994 15 Apr 1997 05 Oct 2000

KR00-17671 A	06 Apr 2000	None	

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Y	US 5861839 A (Sony Corporation.) 19 January 1999 column 8, line 56- column 10, line 5, column 14, line 37- column 15, line 45, fig 9, 10, 19-20	1-3, 6-8, 14
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"&" document member of the same patent family

Date of the actual completion of the international search

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Name and mailing address of the ISA/KR

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Facsimile No. 82-42-472-7140

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BAK, Jeong Sik

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 5861859 A	19 Jan 1999	EP 716469 A1 CN 1129997 A1 WO 96/00990 A1 FI 960905 A	12 Jun 1996 28 Aug 1996 11 Jan 1996 27 Feb 1996
KR01-220784 Y	05 Feb 2000	None	
EP 593185 A1	01 Oct 1993	GB 2271670 A1 JP 6204726 A2 IL 107272 A1 DE 69329323 C0	20 Apr 1994 22 Jul 1994 15 Apr 1997 05 Oct 2000
KR00-17671 A	06 Apr 2000	None	

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